Highly flexible and UL/CSA-approved



Automation

Flame-retardant

Halogen-free

Industrial machinery and plant engineering

Power chain

UV-resistant

Application range

For highly flexible applications
DeviceNet™ connects industrial devices e.g. limit switches, photoelectric switches, valve islands, motor starters, drives, PLCs, etc.

Design

Core insulation: PE
Outer sheath of Polyurethan (PUR) or Polyvinylchlorid (PVC)

Norm references / Approvals

PUR: UL/CSA-approved (CMX)
PVC: UL/CSA CMG 75°C FT4 Sun Res Oil Res, at 2170346 also PLTC

Product features

Based on proven CAN (Controller Area Network) technology.
Permissible cable lengths vary with the data rate and the cable thickness
Refer to data sheet for more details
PUR (P) Version: Halogene freePVC (Y) Version: Flame retardant (UL FT4)
UV-resistant (but colour may change after some time)

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Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
DeviceNet is a registered trademark of ODVA
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Technical Data

Core identification code:	Data pair: light blue + white Power supply: red + black
Mutual capacitance:	(800 Hz): max. 39.8 nF/km
Peak operating voltage:	300 V (not for power applications)
Conductor resistance:	Thick (loop): max. 45 ohm/km Thin (loop): max. 180 ohm/km
Minimum bending radius:	Fixed installation: 7.5 x cable diameter Flexing: 15 x outer diameter
Test voltage:	Core/core: 2000 V
Temperature range:	PUR: -40°C to +80°C PVC: -10°C to +80°C
Characteristic impedance:	120 ohm

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Part number	Article designation	Number of pairs and AWG size	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/m)
Version P (PUR)					
2170344	UNITRONIC® BUS DN THICK FD P	1x2xAWG18 + 1x2xAWG15	12.2	94.0	184
2170345	UNITRONIC® BUS DN THIN FD P	1x2xAWG24 + 1x2xAWG22	6.9	33.4	67.7
Version Y (PVC)					
2170346	UNITRONIC® BUS DN THICK FD Y	1x2xAWG18 + 1x2xAWG15	12.2	94.0	195
2170347	UNITRONIC® BUS DN THIN FD Y	1x2xAWG24 + 1x 2xAWG22	6.9	33.4	69.8

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